

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the installation of new loop detectors and probes B. Equipment to be furnished and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

II. INTERSECTION OPERATION

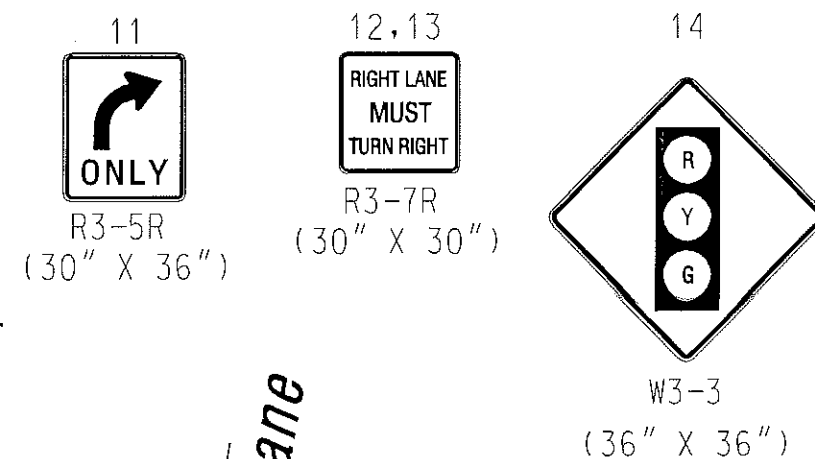
The intersection currently operates in NEMA four (4) phase, full-traffic-actuated mode. The MD 273 through movements operate concurrently with a concurrent pedestrian movement across the south leg of the intersection. The Rising Sun Town Center Entrance /Pumping Station Lane movements operate concurrently with an actuated pedestrian movement across the west leg of the intersection.

The existing cabinet/controller, and phasing will be utilized.

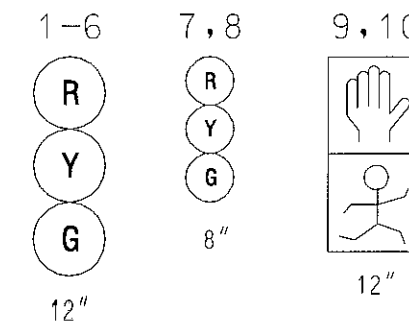
EQUIPMENT LIST

Category Code No.	Quantity	Units	Description
800000	1	LS	Video detection system
810550	2	EA	Micro-loop probe (set of 3) with 500 ft. lead-in cable.
805135	200	LF	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched during construction.
811001	1	EA	Handhole.

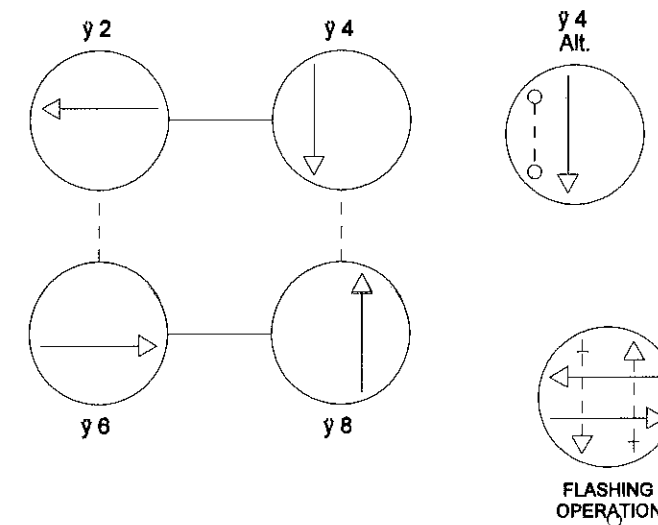
EXISTING SIGNS



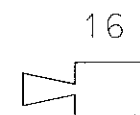
EXISTING SIGNALS



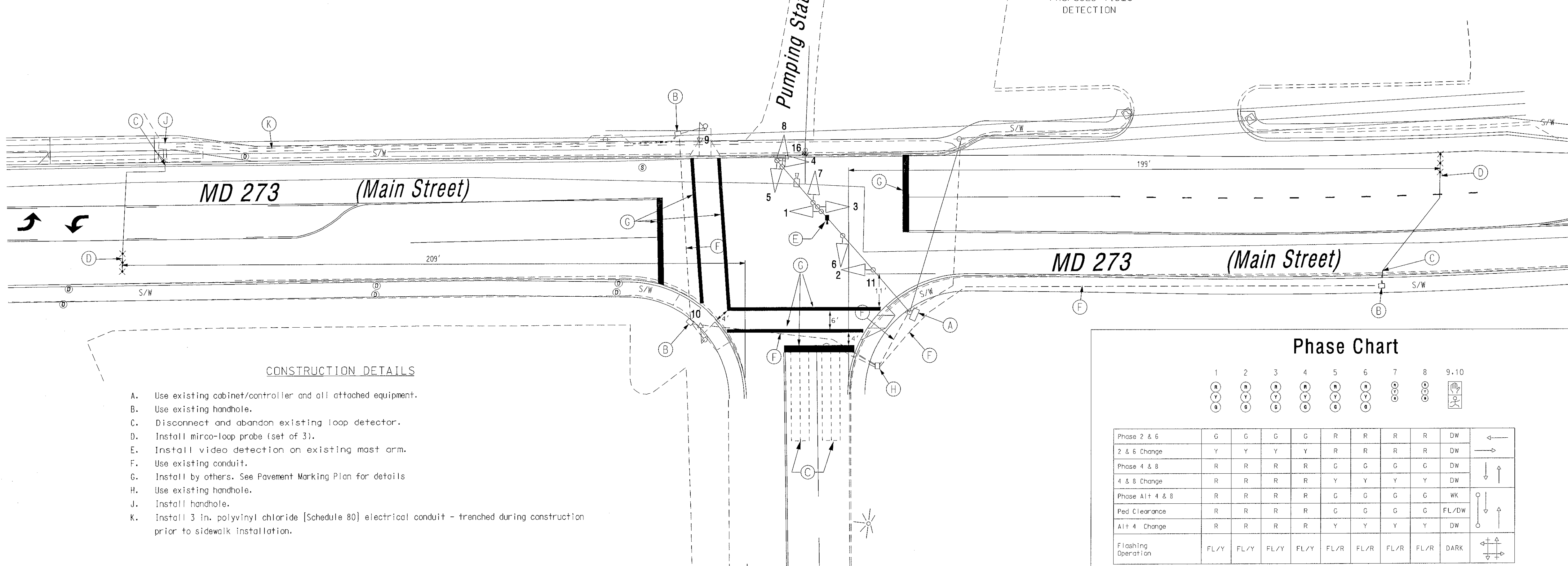
EXISTING NEMA PHASING



EXISTING CAMERA



PROPOSED EQUIPMENT



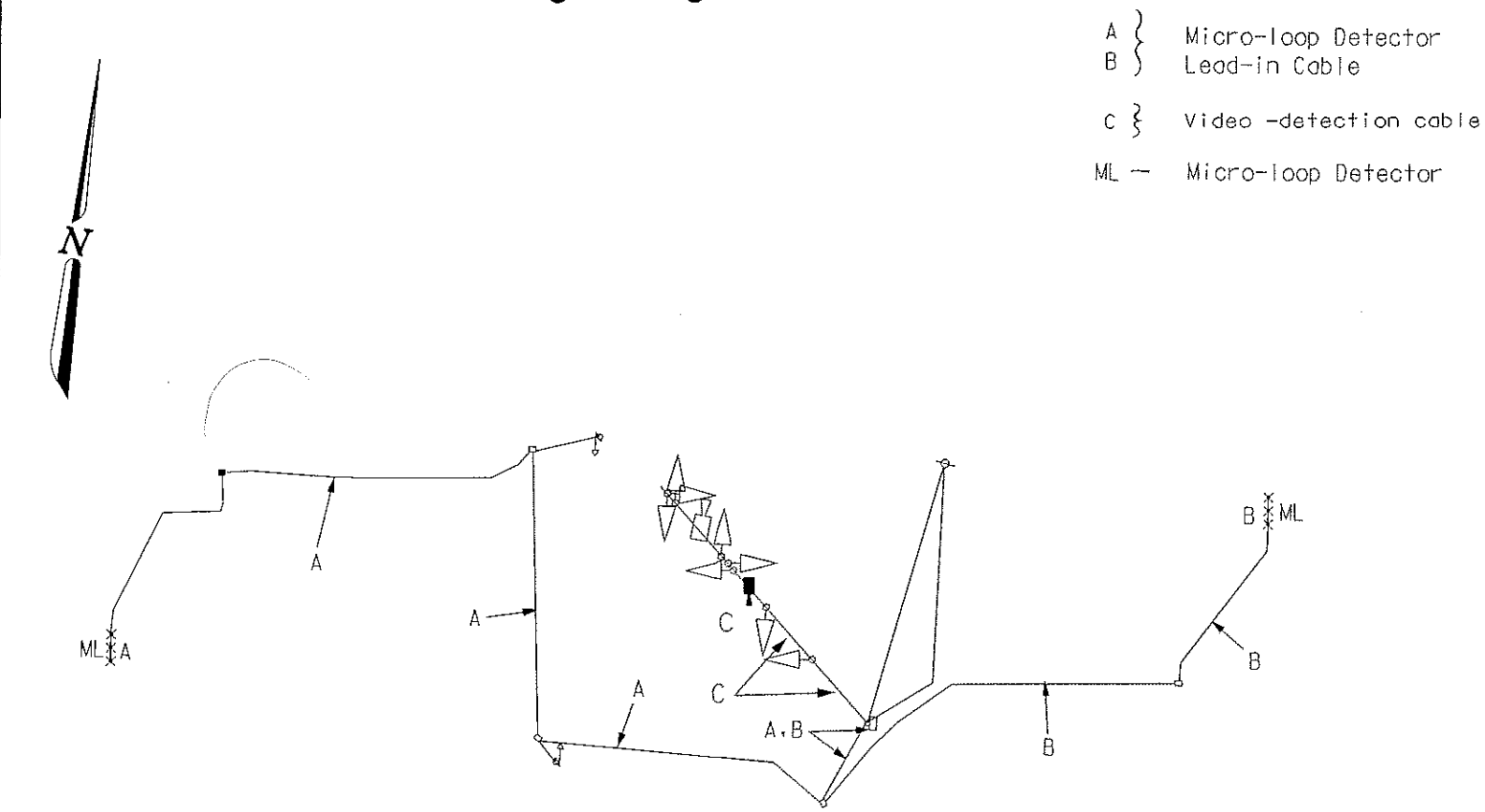
CONSTRUCTION DETAILS

- A. Use existing cabinet/controller and all attached equipment.
- B. Use existing handhole.
- C. Disconnect and abandon existing loop detector.
- D. Install micro-loop probe (set of 3).
- E. Install video detection on existing mast arm.
- F. Use existing conduit.
- G. Install by others. See Pavement Marking Plan for details.
- H. Use existing handhole.
- J. Install handhole.
- K. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched during construction prior to sidewalk installation.

Phase Chart

	1	2	3	4	5	6	7	8	9, 10
Phase 2 & 6	G	G	G	G	R	R	R	R	DW
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	DW
Phase 4 & 8	R	R	R	R	G	G	G	G	DW
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	DW
Phase Alt 4 & 8	R	R	R	R	G	G	G	G	WK
Ped Clearance	R	R	R	R	G	G	G	G	FL/DW
Alt 4 Change	R	R	R	R	Y	Y	Y	Y	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK

Wiring Diagram



Rising Sun
Town Center
Entrance

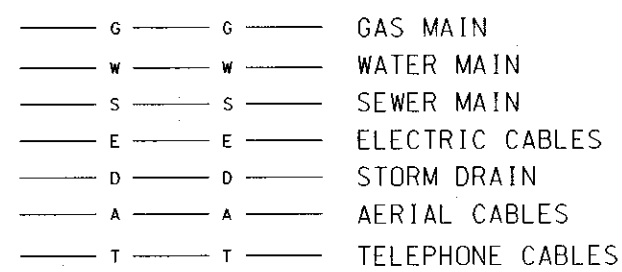
NOTES

- Loop detectors and conduits shall be installed prior to the installation of pavement markings, sidewalks, and final paving.
- Pavement markings detailed are proposed and are to be installed as part of the highway project or are considered as existing.
- Revision 'A' is a revision to the traffic signal built in October, 2000.
- All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

GEOMETRIC LEGEND



UTILITY LEGEND



Revision "A"



REVISIONS

NO.	DESCRIPTION	DATE
1	UPGRADE AND REPLACE DETECTION	August 31, 2001
2		
3		
4		
5		
6		
7		
8		
9		
10		

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)
MD 273 (Main Street) at Rising Sun Shopping Center
Entrance/ Pumping Station Lane

DRAWN BY: T. Zaydel
CHECKED BY: K. Schmid
SCALE: 1" = 20'
DATE: October 10, 2000

F.A.P. NO. N/A
S.H.A. NO. N/A
COUNTY: Cecil
LOG MILE: 07027302.10

TS NO. XXX
T.I.M.S. NO. E-700

SHEET NO. OF